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### [1. N11A-T001: Automated Human and System Performance Assessment in Operational Environments](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a self contained deployable system to automatically quantify combined human and systems performance in real-time and for after-action-review by fusing output of normative models of behavior, human state, system state, and contextual situation state. DESCRIPTION: Complex weapons systems require years of training for crews to master all aspects of the system, the situations ...

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### [2. N11A-T002: Compact Radar Technology For Over the Horizon Small-Boat and Semi-Submersible Detection and Tracking](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a compact multi-input, multi-output Ka-band radar system to provide over-the-horizon maritime target detection and tracking utilizing evaporation duct propagation. DESCRIPTION: The long-range detection, tracking, and classification of maritime surface contacts including detection and discrimination of small targets such as periscope masts is an essential Naval capability. Lon ...

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### [3. N11A-T003: Plasmonic Enhancement of Receiver Circuits for Energy Harvesting](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop novel solutions for plasmonic field enhancement of receiver circuits for energy harvesting applications. DESCRIPTION: Plasmonic field enhancement is now a viable technological tool. It is used extensively in enhancing the sensitivity of a number of spectroscopic techniques. Surface enhanced Raman spectroscopy and spectroscopy depending on Stark effect are key examples. It a ...

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### [4. N11A-T004: High Resolution Measurement of the Flow Velocity Field in a Supersonic Jet Plume](#)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a non-invasive (non-seeded) approach to measure the unsteady, 3-D velocity field of a supersonic jet plume for a stationary aircraft. Looking also to make high resolution, time resolved measurements of the turbulent flow field for Short Take-Off/Vertical Landing (STOVL) aircraft with both subsonic and supersonic flow regions. DESCRIPTION: Modern supersonic jet aircraft engin ...

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**5. [N11A-T005: Modeling of pulse propagation in a four level atomic medium for gyroscopic measurements](#)**

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop robust, versatile and computationally efficient models for an as yet not designed gyroscope based on a four level N-scheme atomic system and a bidirectional ring resonator. DESCRIPTION: It has long been known since the pioneering work of Sagnac that light can be a utilized to perform interferometrically sensitive measurements of rotation. If one considers a ring cavity rotati ...

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**6. [N11A-T006: Advanced Thin-film Battery Development](#)**

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop novel light weight high efficiency thin-film batteries for use in Unmanned Autonomous Vehicles (UAVs), remote sensors, expendables, energy harvesting and in"wearable"flexible electronics. DESCRIPTION: Energy harvesting is important for distributed networks used in remote sensors, perimeter protection, intruder alerts and for widespread monitoring of bio-threats. Most energy ...

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**7. [N11A-T007: Modeling to Quantify Improved Durability of Superfinish Gear Processing](#)**

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop physics based gear health models to quantify the benefit of superfinish over conventional gear processing techniques with regard to pitting, spalling and tooth bending fatigue failure modes. DESCRIPTION: Superfinish processed gears have demonstrated improved performance and durability over conventionally processed gears. However, this improvement has not been quantified. ...

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**8. [N11A-T008: Modeling Tools for the Development of Innovative Wavelength Division Multiplexed \(WDM\) Local Area Networks \(LAN\)](#)**

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop and demonstrate innovative analysis, modeling, and optimization tools and approaches that can characterize the complex interactions between optical network components. DESCRIPTION: Single-mode optical fiber based dense wavelength division multiplexing (DWDM) optical networks are well established as a leading solution for data

communication links for commercial long distance t ...

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**9. [N11A-T009: High Density, High Efficiency Electrical Power Generation System for UAS Applications](#)**

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a high-density, high-efficiency aircraft electrical power generation system with the goal of optimizing heat load, output power, size, and/or weight of future power generation systems. DESCRIPTION: Electrical power generation systems have inherent inefficiencies due to electrical and mechanical loss mechanisms. New technologies are sought to increase the power density and eff ...

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**10. [N11A-T010: High Fidelity Helicopter Lag Damper Model for Comprehensive Rotor Analysis](#)**

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop an experimentally validated high fidelity nonlinear lag damper model that accurately predicts behavior of passive and semi-active or active lag dampers for a range of temperatures, amplitudes, and frequency range, for implementation into a comprehensive rotorcraft analysis system for rotor loads prediction. DESCRIPTION: The use of a Health and Usage Monitoring System (HUMS) f ...

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